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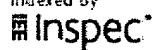
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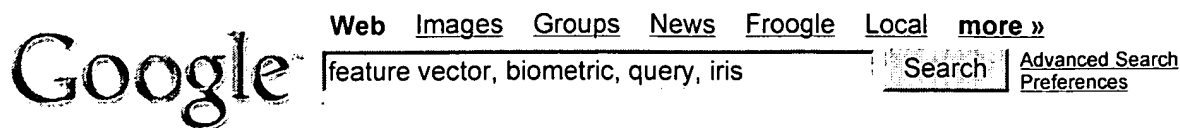
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# Feature-Vector Based Analysis

## (FVBA)

The new technique, called FeatureVector Based Analysis, or FVBA is a unified technique for analyzing multidimensional data. This technique is used as subsequent analysis step to a transformation step. So, the first thing to do is to transform the multidimensional data, using a suitable transformation.

The common idea of FVBA is to look at *Feature Vectors*, produced by the used transformation, to understand the corresponding transformed data that are generally called *Components*.

FVBA can be used for various types of applications. Two of them can directly be recognized, where either well-defined *Feature Vectors*, or well-defined *Components*, are obtained. Other types of applications can be feature extraction and classification.

### *Publications:*

#### ☉ What is FeatureVector Based Analysis?

H. Hamid Muhammed

Swedish Society for Automated Image Analysis  
Symposium 2001 (SSAB 2001), Norrkoping, Sweden,  
14-15 March 2001

#### ☉ Using Feature-Vector Based Analysis, based on Principal Component Analysis and Independent Component Analysis, for analyzing hyperspectral images

H. Hamid Muhammed, P. Ammenberg, and E. Bengtsson

11th International Conference on Image Analysis and Processing (ICIAP 2001), Palermo, Italy, 26-28  
September 2001

#### ☉ Feature Vector Based Analysis: A Unified Concept for Multivariate Image Analysis

H. Hamid Muhammed

Irish Machine Vision & Image Processing Conference

(IMVIP 2001), Maynooth, Ireland, 5-7 September  
2001

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